

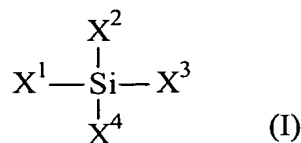
### ABSTRACT OF THE DISCLOSURE

The first embodiment of present invention provides a composition, which includes:

(a) a photocatalytic titanium oxide or a photocatalytic titanium oxide precursor;

(b) at least one selected from the group including:

a silicon compound having the following formula (I):



wherein  $X^1$ ,  $X^2$ ,  $X^3$  and  $X^4$  each independently represent an alkoxy group or a halogen atom,

a hydrolyzate of the silicon compound (I), a silicone resin, silicone resin precursor and silica; and

(c) a liquid medium. Another embodiment of the present invention provides a dental and orologic composition, that includes a photocatalytic titanium oxide or a photocatalytic titanium oxide precursor. Another embodiment of the present invention provides a dental and orologic composition, that includes a photocatalytic titanium oxide or a photocatalytic titanium oxide precursor, and a liquid medium. The composition of the present invention is particularly suitable in dental and oral care, and other embodiments of the present invention provide methods of making and using the above-described compositions.

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